



P.O. Box 40934 • Providence, RI 02940 • Tel: 401-295-0840 • Fax: 401-295-7968

Superfund Records Center
SITE: Lonsdale Bleachery
BREAK: 2.8
OTHER: 643420

Clean Environment Inc.

Working for a Cleaner Environment

**ASBESTOS ABATEMENT AND AIR SAMPLING PLAN
THE LONSDALE BLEACHERY
1 CARRINGTON STREET, LINCOLN, RHODE ISLAND**

Prepared for:

Mr. Michael A. Voccola

FDS Industries, LLC

1140 Reservoir Avenue, Cranston, Rhode Island 02920

Prepared by:

Clean Environment Inc.

P.O. Box 40934

Providence, Rhode Island 02940

DATE:

December 2004



SEMS DocID

643420

INDEX

- I RI State Asbestos Abatement Form ASB-16
- II RI State Asbestos Abatement Form ASB-16A
 Pipe Insulation
- III RI State Asbestos Abatement Form ASB-16B
- IV Attachments:
 "Asbestos Abatement Plan" for the Lonsdale Bleachery, 1
 Carrington Street, Lincoln

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:

FDS Industries, LLC

2. Application Prepared By:

John E. Lavoie

3. Building Owner's Mailing Address and Telephone Number:

Street: 1140 Reservoir Avenue

City/Town: Cranston

Zip: 02920

Telephone No.: 401 946-4600

(Area Code, No., Ext.)

RI certification No: AAC- 293- PD

Telephone No: 401 295-0840

(Area code, No., Ext.)

4. Person to be contacted regarding this application:

Name: Michael A. Voccola

Telephone No: 401 946-4600

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name (if applicable): Lonsdale Bleachery

Street: 1 Carrington Street

City/Town: Lincoln Zip: 02865

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? () Yes (X) No

If Yes, what is the due date for submittal of Abatement plan?

(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: To be determined

R.I. License No.: LAC-

8. Estimated Starting Date of Abatement Work: As soon as Plan is approved
(Month) (Day) (Year)

9. Estimated Completion Date of Abatement Work: One Day to complete work
(Month) (Day) (Year)

10. Type of Asbestos Abatement: (Check all that apply)
☒ Removal ☐ Enclosure
☐ Encapsulation ☐ Demolition
☐ Operations and Maintenance Only
☐ Other (Specify) _____

11. Type of Building: ☐ School
☒ Privately Owned Building
☐ Publicly Owned Building
☐ Residence
☐ Other (Specify) _____

12. Building Access: ☐ Public Access (\geq 25% of Building Area)
☒ Limited Public Access (< 25% of Building Area)
☐ No Public Access

13. Bulk Sample Collection and Analysis:

A). Person collecting bulk samples:

Name: John E. Lavoie RI Certification No.: AAC293-IS

B). Sampling Methodology:

☐ EPA AHERA Sampling requirements [40 CFR 763.86].

☐ EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-405/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560/85-024)

☒ Other (Specify) Representative sampling

C). Laboratory performing the analysis of the bulk samples

Name: EMSL RI Certification No.: AAL-075T3

D). Analytical Methodology:

☒ EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples [PLM method only].

☐ Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis:

A). Person collecting pre-abatement air samples:

Name: NA Affiliation: NA

B). Laboratory performing analysis of pre-abatement air samples.

Name: NA RI Certification No.: AAL-NA

C). Methodology used in the collection and analysis of pre-abatement samples:

() NIOSH Method 7400 [Most Current Revision]

() OSHA 29 CFR 1926.58 – Appendix A & B

() Other (Specify) _____

-
- 15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.**

To be determined

- B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).**

To be determined

-
- 16. Person designated as compliance monitor for abatement work. [NOT REQUIRED]**

Name: _____

Affiliation: _____

17. In-Process & Clearance Air Sampling:

- A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
See AAP
- B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.
See AAP
- C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
See AAP
- D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.
See AAP
-

18. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

Pipe Insulation and asbestos debris on floor

19. I certify that this plan was prepared by me and I am responsible for its content.

Signature: John E. Lammie Date December 6, 2004
(Month) (Day) (Year)

Affiliation: Clean Environment Inc.

20. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

- | | |
|--|--------|
| () Operation & Maintenance Only | \$ 75 |
| (X) Up to One (1) NESHAP Unit | \$ 75 |
| () Between One (1) & Ten (10) NESHAP Units | \$ 300 |
| () Between Ten (10) & Fifty (50) NESHAP Units | \$ 600 |
| () Over Fifty (50) NASHAP Units | \$ 900 |
-

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: 1 Carrington Street, Lincoln

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

(1) Area Location/Identification (Room Name/No., Evaluation Number, etc.)

Boiler Room Area

(2) Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

See AAP

(3) Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

See AAP

(4) PROPOSED REMEDIES:

A). Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C. 1.2 (b).

See AAP

(4) PROPOSED REMEDIES (cont.):

B). Will any portion of this area be abated by use of B.8 work procedures?

☒ Yes ☐ No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

<u>B.8.2 & B.8.3</u>	<u>[REMOVAL]</u>	<u>Asbestos Debris on Floor</u>
<u>B.8.2 & B.8.4</u>	<u>[ENCAPSULATION]</u>	_____
<u>B.8.2 & B.8.5</u>	<u>[ENCLOSURE]</u>	_____
<u>B.8.6</u>	<u>[DEMOLITION]</u>	_____
<u>B.8.7</u>	<u>[GLOVEBAG]</u>	<u>Pipe Insulation</u>
<u>B.8.8</u>	<u>[ASPHALT ROOFING]</u>	_____

C). Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

☐ Yes ☒ No

If yes, attach a detailed description of the waivers requested you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

D). Are you proposing alternative procedures under B. 11 for any of the abatement activities in this area?

☐ Yes ☒ No

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

E). Will any RACM remain in this area after abatement?

☐ Yes ☒ No ☐ Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C. 1.2(b)

See AAP

AGENCY USE ONLY

RHODE ISLAND DEPARTMENT OF HEALTH
NOTARIZED CERTIFICATION OF ASBESTOS ABATEMENT PLAN

Facility: Lonsdale Bleachery
Address: 1 Carrington Street
City/Town: Lincoln Zip 02865 Amendment Phase No: _____
Abatement Plan Written By: John E. Lavoie Certification No: AAC- 293-PD
Summary of specific waivers/variances being requested: Pre abatement, in process and clearance air sampling

Type of Asbestos Abatement (☒ Removal (☐ Enclosure (☐ Encapsulation
(☐ Demolition (☒ Glovebag (☐ Asphalt Roofing
(☐ Other (specify) _____

Is this plan being submitted in response to a Notice of Violation and/or a Notice of Requirement to Submit an Asbestos Abatement Plan? (☐ Yes (☒ No

If yes, Indicate Notice/Building Evaluation No(s): _____
Contractor: To be determined License No: LAC- _____

Estimated Starting Date: As soon as Plan is approved

Pre-Abatement Sampling Information

Bulk Samples Collected By: John E. Lavoie Certification No: AAC- 293-IS
Bulk Samples Analyzed By: EMSL Certification No: AAL- 075 T3
Air Samples Analyzed By: NA Certification No: AAL- NA

Clearance Air Sampling Information

Air Samples to be Collected By: NA
Air Samples to be Analyzed By: NA Certification No: AAL- NA

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

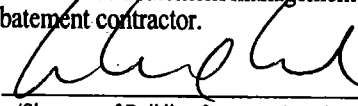
Certified by:  Title: DIRECTOR
(Signature of Building Owner or Agent)
MICHAEL A VOLCORO Date: 12/17/09
(Typed/Printed Name of Certifier)
Subscribed and sworn before me this 17th day of December, 2009
Nicole Javery My Commission Expires: 11/16/06
(Notary Public)
AFFIX NOTARY SEAL HERE
NICOLE JAVERY
Notary Public in the
State of R.I. # 47251
Expires November 16, 06

TABLE OF CONTENTS

Section 1.0	Introduction
Section 2.0	Bulk Sampling Information
Section 3.0	Pre-Abatement Sampling
Section 4.0	Description of Abatement Area
Section 5.0	Interim Operations and Maintenance Program
Section 6.0	Specific Abatement Proposal
Section 7.0	Criteria for Selection of Contractor
Section 8.0	Authorized Disposal Facility
Section 9.0	Methods for Insuring Compliance
Section 10.0	Monitoring Compliance
Section 11.0	Monitoring Requirements
Section 12.0	Confirmation of Proper Asbestos Disposal
Appendices:	
Appendix A: Laboratory Data Sheet - Bulk Sample Analysis	
Appendix B: Chart of ACM (including type, location, amount, condition, & content)	
Appendix C: Diagrams	

ASBESTOS ABATEMENT PLAN

1.0 INTRODUCTION

This asbestos abatement plan is being submitted on behalf of:

Mr. Michael A. Voccola

FDS Industries, LLC

1140 Reservoir Avenue, Cranston, RI 02920

to address the requirements of Part C of the Rhode Island Department of Health Rules and Regulations for Asbestos Control (R23-24.5-ASB), as amended February, 1992.

The abatement project shall be performed in accordance with all applicable local, State, and Federal regulations concerning asbestos removal. This abatement plan documents the proposed project.

2.0 BULK SAMPLING INFORMATION (see Section 13 of Form ASB-16)

The asbestos containing material (ACM) to be abated is characterized by bulk samples collected on November 30, 2004 by John E. Lavoie (RI DOH Certification No.s 293-PD and 293-IS). The samples were analyzed at EMSL in Westmont, NJ.

Analyses were performed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the Environmental Protection Agency's (EPA's) "Interim Method for Determination of Asbestos in Bulk Insulation Samples".

The ACM to be abated includes approximately 45 linear feet (l.f.) of asbestos pipe insulation and asbestos pipe insulation from the floor of the former boiler room area.

3.0 PREABATEMENT AIR SAMPLING (refer to Section 14, Form ASB-16)

3.1 Continuous Area Sampling During Abatement

Since the location of the asbestos abatement project will be performed in the former boiler room area of the site and since the roof of this boiler room has been demolished, no in process air sampling will be required.

3.2 Clearance Air Testing

Since the former boiler room has been demolished and the roof of the former boiler room is open to the atmosphere, no clearance air samples will be collected.

4.0 DESCRIPTION OF ABATEMENT AREA

The site of the abatement project is the former boiler room area. The roof of the former boiler room area has been demolished and the interior of the former boiler room has debris located throughout the former boiler room. Asbestos pipe insulation is located on a steam pipe which enters the former boiler room from an adjacent building and terminates on top of one of the out of service boilers. Also, ACM debris is located on the floor of the former boiler room area. The non-asbestos debris will have to be removed from the former boiler room area so the ACM debris on the floor can be abated. The total amount of ACM debris on the floor is unknown.

5.0 INTERIM OPERATIONS AND MAINTENANCE PROGRAM

5.1 All warning signs and employee notices will remain posted until the asbestos material has been completely removed from the premises.

5.2 All documents relating to laboratory results, survey locations and Operations and Maintenance Plans will remain on file until all the asbestos pipe insulation has been removed.

6.0 SPECIFIC ABATEMENT PROPOSAL

- 6.1** FDS Industries, LLC proposes to remove approximately 40 linear feet (l.f.) of asbestos pipe insulation and an undetermined amount of ACM debris from the former boiler room area.

All asbestos abatement work will be performed by an asbestos contractor licensed in the State of Rhode Island, and all work will be performed in accordance with all local, State and Federal regulations.

- 6.2** Asbestos removal will be performed as soon as the plan is approved by the RI Department of Health. The contractor, provided with the appropriate notifications, will then perform the asbestos abatement.

- 6.3** It is anticipated that the removal project will take approximately one day to complete. The proposed abatement project involves total quantities of ACM more than one NESHAP unit as referenced in Section B.8.1 of the Rules and Regulations for Asbestos Control.

7.0 CRITERIA FOR SELECTION OF CONTRACTOR

An Asbestos Contractor licensed by the State of Rhode Island in accordance with Section B.1. of the Rules and Regulations for Asbestos Control will be selected. The name and license number of the contractor will be submitted to the RI Department of Health as soon as the information is available.

8.0 AUTHORIZED DISPOSAL FACILITY

The authorized asbestos waste facility will be selected by the contractor. The name of the approved disposal site will be forwarded to the RI Department of Health.

9.0 METHODS FOR INSURING COMPLIANCE

(see Sections b and d of Form ASB-16A)

10.0 MONITORING COMPLIANCE

Compliance with the asbestos abatement plan will be monitored by an independent monitoring firm in accordance with Section D.4 of the RI Rules and Regulations for Asbestos Control. A monitor will perform a final visual inspection to insure that the area is visually clean.

11.0 MONITORING REQUIREMENTS (see Section 17a-d of Form ASB-16)

11.1 Air Sampling During Abatement

Since the former boiler room area is open to the atmosphere, in process air samples will not be required.

11.2 Clearance Air Sampling

Since the former boiler room area is open to the atmosphere, clearance air samples will not be required.

NOTE: Since compliance and clearance samples are waived for this Project, asbestos abatement workers will be required to collect personal air sampling for each day the project is on going. The laboratory results of the analysis for the personal daily air samples will be forwarded to the RI DOH upon completion of the project.

12.0 CONFIRMATION OF PROPER ASBESTOS DISPOSAL

The Owner shall obtain confirmation of proper asbestos disposal and provide copies to the RI Department of Health in accordance with Section C.1.3 (b) of the Rules and Regulations for Asbestos Control.

**Appendix A
Laboratory Certificates of Analysis**


 EMSL
EMSL Analytical, Inc.

107 Haddon Ave., Westmont, NJ 08108

Phone: (856) 858-4800 Fax: (856) 868-4860 Email: esiegel@EMSL.com

Attn: **John E. Lavoie**
Clean Environment
P.O. Box 40934
Providence, RI 02940

Customer ID: **CLEA57**
 Customer PO:
 Received: **11/30/04 9:50 AM**
 EMSL Order: **040423611**

Fax: **(401) 295-7968** Phone: **(401) 295-0840**
 Project: **LONSDALE BLEACHERY, LINCOLN, RI**

EMSL Proj:
 Analysis Date: **12/3/04**
 Report Date: **12/3/04**

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1 040423611-0001	LONSDALE BLEACHERY- BOILER ROOM	Gray Fibrous Heterogeneous		77% Non-fibrous (other)	20% Amosite 3% Chrysotile
2 040423611-0002	LONSDALE BLEACHERY	White Fibrous Heterogeneous		85% Non-fibrous (other)	15% Amosite

Analyst(s)

Erica Valent (2)

 Stephen Siegel, CIH
 or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. The test results contained within this report meet the requirements of NELAP, unless otherwise noted.

Analysis performed by EMSL Westmont (NELAP #101048-0). NY ELAP 10673

EMSL ANALYTICAL

CHAIN OF CUSTODY

Representative: JOHN E. LAUDIE
 Your Company Name: CLEAN ENVIRONMENT INC.

EMSL-Bill to:

JOHN E. LAUDIE
CLEAN ENVIRONMENT INC.

Street:

Street:

Box #:

Box #:

City/State:

City/State:

P.O. Box 40934
PROVIDENCE, RI Zip: 02940

P.O. Box 40934
PROVIDENCE, RI Zip: 02940

Phone Results to:

Fax Results to:

Name:

to: Name:

Telephone #:

Fax #:

Project

Purchase

Name/Number:

Order #:

JOHN E. LAUDIE
401-295-0840
LONS DAKE BLDG. RECY
CINCINNATI, OH

JOHN E. LAUDIE

MATRIX

TURNAROUND

- ☐ Air ☐ Floor Tile ☐ Soil
☒ Bulk ☐ Drinking Water ☐ Dust
☐ Wipe ☐ Wastewater

- ☐ 3 Hours ☐ 6 Hours ☐ Same Day* ☐ 12 Hours
☐ 24 Hours ☐ 48 Hours ☒ 3 Days ☐ 5 Days
☐ 6-10 Days

PCM

- ☐ NIOSH 7400
☐ OSHA

☐

Other: _____

TEM AIR

- ☐ AHERA
☐ NIOSH 7402

☐ Level I☐ Level II

TEM WATER

- ☐ Wastewater
☐ Drinking Water EPA 100.1
☐ Water - NY Wastewater

☐ Water-NY Drinking Water

PLM

- ☒ EPA 600
☐ NOB
☐ Point Count

☐

Other: _____

TEM BULK

- ☐ Drop Mount (Qualitative)
☐ Chatfield
☐ Chatfield / SEM QC
☐ Conventional (Quantitative)

☐ EMSL Method☐ NOB☐ NOB / SEM QC☐ Micro Vac - Quantitative☐ Micro Vac - Qualitative

TEM WIPE

- ☐ Quantitative
☐ Qualitative

☒☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐Client Sample # (s) 1 & 2

Total Samples:

Relinquished:

Date:

Time:

Date:

Time:

Received:

Date:

Time:

Received:

SAMPLES ACCEPTED
 FOR ANALYSIS BY
 EMSL ANALYTICAL INC.

***Asbestos Abatement Plan for the Lonsdale Bleachery
1 Carrington Street, Lincoln, Rhode Island***

**Appendix B
Chart of ACM**

***Asbestos Abatement Plan for the Lonsdale Bleachery
1 Carrington Street, Lincoln, Rhode Island***

**CHART OF ACM
THE LONSDALE BLEACHERY
1 CARRINGTON STREET, LINCOLN, RHODE ISLAND**

<u>Location/Type</u>	<u>Approximate Amount</u>	<u>Condition</u>	<u>Total Asbestos Content</u>
1. Former Boiler Room Area			
Pipe Insulation	40 linear feet	poor	15% Amosite
ACM Debris	Unknown	Poor	30% Amosite 3% Chrysotile

Appendix C

Site Diagram

**Former Boiler Room Area
Lonsdale Bleachert**

Driveway

ACM Overhead Pipe Insultaion

Adjacent Building

Boiler

Boiler

Door

3 Chamber De Con

ACM Debris on Floor

